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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,075	01/23/2006	Jurgen Weichart	38477	9693
PEARNE & GO	7590 12/11/200 <b>DRDON LLP</b>	EXAMINER		
1801 EAST 9T	-	KACKAR, RAM N		
SUITE 1200 CLEVELAND,	ОН 44114-3108	[ 44114-3108		PAPER NUMBER
,			1792	
			MAIL DATE	DELIVERY MODE
			12/11/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		A	Application No.		Applicant(s)			
			10/542,075		WEICHART, JURGEN			
		E	Examiner		Art Unit			
			Ram N. Kackar		1792			
Period fo	The MAILING DATE of this communi or Reply	cation appea	ars on the cover s	heet with the co	orrespondence a	ddress		
WHIC - Exter after - If NC - Failu Any (	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum sta- te to reply within the set or extended period for reply reply received by the Office later than three months at ed patent term adjustment. See 37 CFR 1.704(b).	AILING DAT of 37 CFR 1.136(a unication. tutory period will a will, by statute, ca	E OF THIS CON  a). In no event, however  apply and will expire SI  tuse the application to b	MMUNICATION  or, may a reply be time  (6) MONTHS from the the come ABANDONED	L. ely filed the mailing date of this (0) (35 U.S.C. § 133).			
Status								
1) 又	Responsive to communication(s) file	d on <i>20 Mare</i>	ch 2008					
•			ction is non-final.					
3)		<i>/</i> —			secution as to th	e merits is		
٥,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		•	,				
· ·		is/aro pondir	ag in the applicat	ion				
•	Claim(s) <u>1,3-11,13,15,16 and 19-30</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.	ia/aua uaiaata	ام. ما					
· ·	Claim(s) <u>1,3-11,13,15,16 and 19-30</u>	is/are rejecte	ea.					
	Claim(s) is/are objected to.	,						
8)[_]	Claim(s) are subject to restrict	tion and/or e	election requirem	ent.				
Applicati	on Papers							
9)	The specification is objected to by the	e Examiner.						
10)	The drawing(s) filed on is/are:	a) accept	ted or b)□ objed	cted to by the E	Examiner.			
	Applicant may not request that any object	tion to the dra	awing(s) be held in	abeyance. See	37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	the correction	n is required if the	drawing(s) is obj	ected to. See 37 C	FR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2)  Notic 3)  Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P' mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	TO-948)	5) <u>P</u> 8	terview Summary ( aper No(s)/Mail Da otice of Informal Pa ther:	te			

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3-5, 7-9, 11, 13, 15-16, 20-21, 23 and 28-30 rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Tokisue et al (US 5258047).

Tokisue et al discloses one frame with a clamped-in carrier (Fig 19), where a substrate is secured over substantially its entire surface to the carrier. The substrate is clamped electrostatically on carrier with a conducting surface on one side.

This carrier is further configured (by adding a dielectric layer 71) to be removably positioned adjacent a surface of a chuck electrode (Fig 20 16) so that said carrier and said chuck electrode together form an electrostatic chuck device wherein the conductive layer of said carrier (20) and surface of said chuck electrode (16) form two plates of a plate-type capacitor when positioned adjacently (See for example Col 8 line 14-43). Dielectric layer could comprise alumina as conventionally known.

Regarding claim 4, it is a product by process claim. Product-by-process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps.

The dimensions of layers as claimed in claim 5 are obvious to be optimized for chucking force and mechanical strength.

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## Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 6, 10, 19, 22 and 24-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tokisue et al in view of Herchen (US 5737178).

Tokisue et al disclose all the limitations of these claims except commonly known elements of chucks used for semiconductor processing in a vacuum chamber as disclosed by Herchen.

Herchen discloses a vacuum chamber with an electrostatic chuck and RF power electrode where chuck electrode is insulated from RF power electrode and there is heat transfer gas between the substrate and chuck (Fig 1-3).

Since these elements are required for plasma processing it would be obvious for one of ordinary skill in the art at the time of invention to chuck the carrier of Tokisue et al on the base as in Herchen.

### Response to Arguments

Applicant's arguments filed 9/11/2008 have been fully considered but they are not persuasive.

Applicant argues that referring to Fig 19 there are no frame and no carrier.

Regarding the meaning of term "frame" it is noted that frame is a generic term and needs to be further defined to clarify its scope. The claims do that clarification. For the examination the term "frame" has been given the definition as contained in the claims. For example in claim 1 frame is a structure which clamps something (clamped-in-carrier- clamps both substrate and carrier) which may also be used for securing a substrate. As discussed above structure in Fig 20 of Tokisue et al meets that definition. Similarly all the required claimed features of this "frame" in claims 11, 15 and 20 are disclosed by Tokisue et al.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ram N Kackar/ Primary Examiner, Art Unit 1792